

COUNTING ROOM TECHNICIAN JOB PERFORMANCE MEASURE

TASK CODE: CRT-D05

TASK: Perform Gross Alpha/Beta Analysis with a Proportional Counter

NAME: _____ **SSN:** _____

REFERENCES:

1. WP 12-RL1300, Operation of Canberra 2404 Alpha/Beta Counting System
2. WP 12-RL1340, Operation of Tennelec LB4100 Gross Alpha/Beta Counting System

TERMINAL OBJECTIVE:

Given a sample requiring gross alpha/beta analysis, perform the analysis per WP 12RL1300 and WP 12-RL1340.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper sample analysis
Component damage

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

None

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CF 3.00 Series
2. CRT-D02, Perform Proportional Counter Preoperational Checks

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

1. Canberra Alpha/Beta Counting System
2. Tennelec Gross Alpha/Beta Counting System
3. System Logbook
4. Tweezers

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	Canberra 2404 Alpha/Beta Counting System	
1	State the number of samples that may be counted in a single batch.	
1	Discuss the various counting options and parameters that may be selected.	
1	State any restrictions associated with the performance of the preoperational checks.	
2	Tennelec LB4100 Gross Alpha/Beta Counting System	
2	State the number of samples that may be counted in a single batch.	
2	Discuss the various counting options and parameters that may be selected.	
2	State any restrictions associated with the performance of the preoperational checks.	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
1	Canberra 2404 Alpha/Beta Counting System	
1	Verify preoperational checks have been completed within the last 24 hours.#	
1	Load samples with appropriate number of blanks.#	
1	Select options/parameters and count an air sample filter.#	
1	Select options/parameters and count a smear.#	
1	Generate, review and initial the printout report.#	

1	Document the completion of analysis in the system logbook.#	
Reference	Performance Requirement	Pass/Fail
2	Tennelec LB4100 Gross Alpha/Beta Counting System	
2	Verify preoperational checks have been completed within the last 24 hours.#	
2	Load samples.#	
2	Select options/parameters and count an air sample filter.#	
2	Select options/parameters and count a smear.#	
2	Generate, review and initial the printout report.#	
2	Document the completion of analysis in the system logbook.#	

indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

DATE:_____

TRAINEE SIGNATURE:

DATE:_____

MANAGER SIGNATURE:

DATE:_____